

TECHNICAL DATA SHEET

High-performance plastic type CP

General notes:

- » PEEK polyetheretherketone reinforced with carbon nano
- » very hard, rigid, high tensile and flexural strength, very high wear resistance
- » high heat capability (260-300°C), good dimension stability, low thermal linear expansion coefficient
- » excellent resistance to chemicals and aggressive agents, excellent resistance to thermal ageing
- » ESD-safe material 10⁵-10⁶ Ohm
- » typical applications include handling of components in cleaning/chemical/assembly processes also at high temperature (soldering).

Mechanical properties

Flexural modulus +23°C Flexural strength +23°C Tensile modulus +23°C Tensile strength +23°C Izod - Impact strength (notched) +23°C	21400 MPa 350 MPa 24000 MPa 190 MPa 65 J/m	ISO 178 ASTM D 790 ISO 178 ASTM D 790 ISO 527 ASTM D 638 ISO 527 ASTM D 638 ISO 180/4A ASTM D 256
Thermal properties		
Temp. of defl. under load (1.80 MPa) Continuous Use Temperature Short Time Temperature	300 °C 260°C 300°C	ISO 75 ASTM D648 20'000 h
Electrical properties		
Surface resistivity Decay time	10 ⁵ -10 ⁶ Ohm < 0.2 sec	1000-10 V
Other properties		
Density Water absorption in water 23°C (24h)	1.28 g/ccm 0.60%	ISO 1183 ISO 62

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.

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